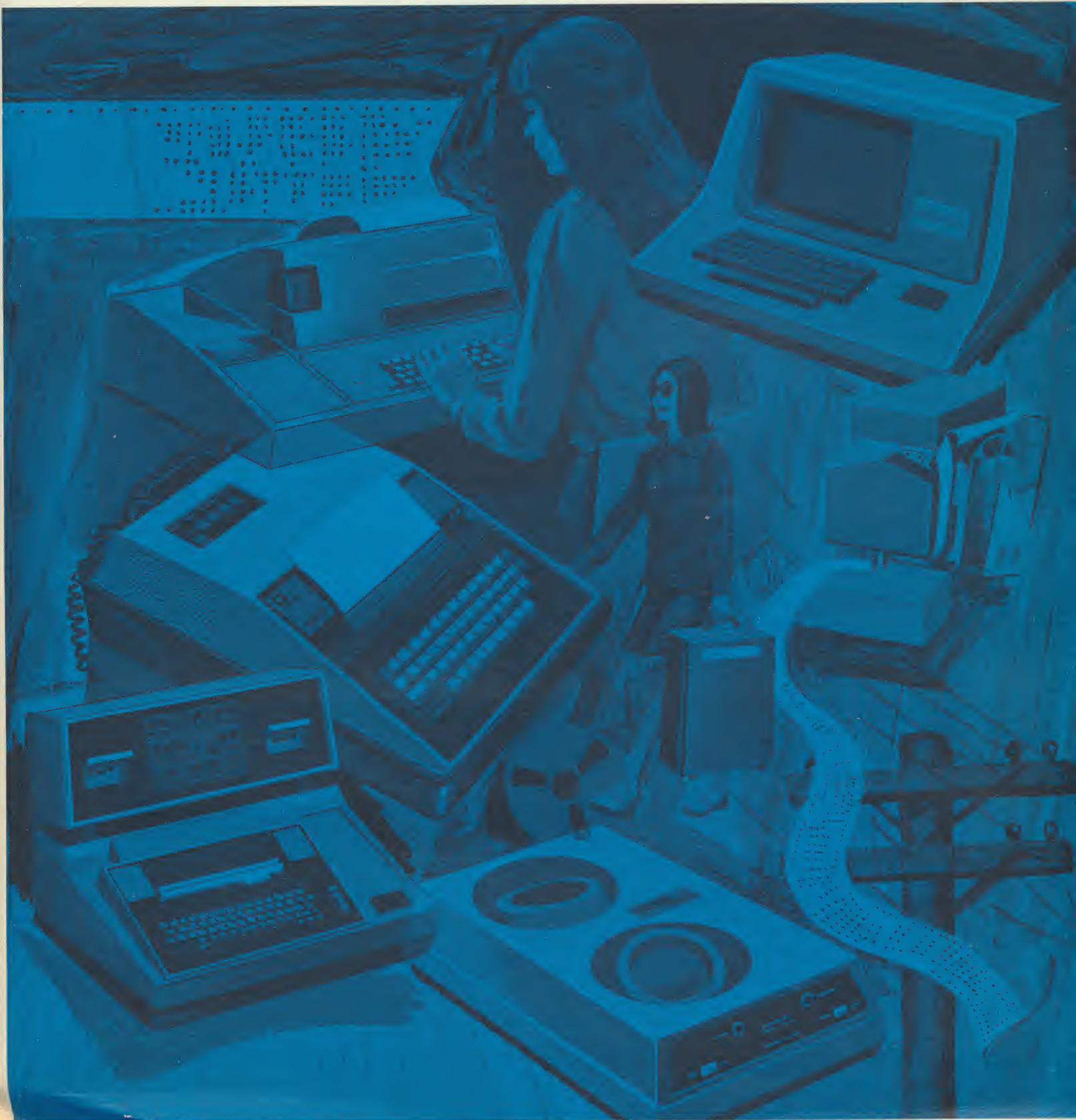




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**PHIL HARRIS
SALES REPRESENTATIVE**





PRODUCT PREVIEW

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DATA TERMINALS

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SALES LEASING SERVICE

DIGITAL



LA36 DECwriter II

Is a 30 cps stand-alone impact printer allowing great versatility as a hard-copy terminal in local or remote I/O applications.

LA34 DECwriter IV

is an economical desk-top impact printer featuring downline loadable character attributes to enhance I/O applications.

LA180 DECprinter I

Is a 180 cps RO impact printer featuring parallel interface capabilities.

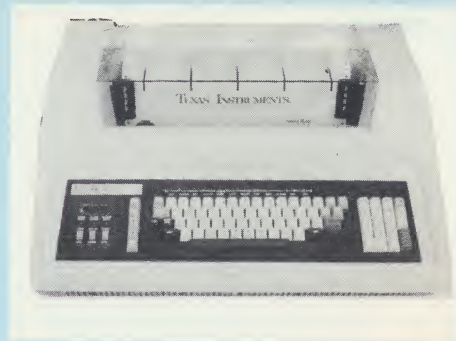
LA120 DECwriter III

Is a 180 cps bi-directional impact printer featuring downline loadable character attributes to enhance I/O applications.

VT100 Video-Display Terminal

Is a high performance video display terminal featuring downline loadable character attributes, 132 column lines (or 80 column lines, keyboard selectable), and other unique characteristics to facilitate special I/O applications.

TEXAS INSTRUMENTS



TI733-ASR

Is a versatile 30 cps thermal printer with an integral dual data cassette unit (also available as a KSR terminal).

TI743

Is a semi-portable thermal printer especially for external modem or hard-wire I/O applications.

TI745

Is a truly portable 30 cps thermal printer with integral acoustic coupler and carrying case.

TI763

Is a semi-portable thermal bubble memory printer especially for external modem or hard-wire I/O ASR applications.

TI765

Is an exciting new 30 cps portable thermal printer featuring a standard 20K non-volatile bubble memory with carrying case and integral acoustic coupler for ASR applications.

TI820

Is a stand-alone or desk-top 150 cps bi-directional impact printer featuring non-volatile forms control (also available as the TI810 RO terminal).

DIABLO



1610

Is a 30 cps R/O daisy wheel printer capable of typewriter quality printing, plotting and graphics.

1620

Is a 30 cps KSR daisy wheel printer capable of typewriter quality printing, plotting and graphics for local and remote I/O applications.

1650

Is a 30 cps KSR daisy wheel printer capable of typewriter quality printing, plotting and graphics for local and remote I/O applications.

1660

Is a desk-top 180 cps bi-directional impact printer for local and remote I/O applications.

TELETYPE



TTY-4320

Is an economical 30 cps desk-top impact printer available in sprocket or friction feed models for local or remote I/O applications.



Teletype Models - Reconditioned

Computrend, Inc. specializes in reconditioning the older models of Teletypes. All work is performed by our own highly trained personnel to assure the best possible piece of reconditioned equipment on the market today.

PRINTRONIX



Printronix 300

The Printronix 300 is unlike any other impact printer. Its elegantly simple printing mechanism gives it a greater uptime than others. Modular design reduces downtime to the minimum.

The basic concept enables it to put a single dot anywhere on the paper, providing full plotting capability — at no extra cost — plus print quality unattainable by any other line printer.

All-in-all, It's rather remarkable.

FOR ADDITIONAL INFORMATION . . .

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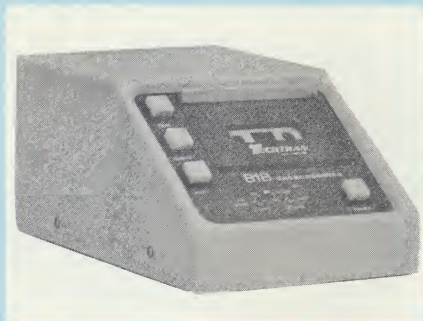
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APPLICATION _____

TECHTRAN



816

A data cassette storage & communications unit featuring file access capabilities at speeds up to 30 cps.

817

A data cassette storage & communications unit featuring file access capabilities at speeds up to 240 cps.

818

A data cassette storage & communications unit featuring file edit capabilities and a high speed scan for up to 31 character string search at speeds up to 240 cps.

COUPLERS



MULTI-TECH SYSTEMS

FM-30

An originate only acoustic coupler capable of transmitting and receiving data at up to 300 baud, compatible with EIA RS232 or 20 ma current loop interfaces, and Western Electric Series 103, 113 A/B data sets. It is also able to control half/full duplex operation with either EIA RS232 or 20 ma current loop compatible terminals.



ANDERSON JACOBSON

AJ242

An originate only coupler capable of transmitting and receiving data at up to 300 baud, compatible with EIA RS232 or 20 ma current loop interfaces, and Western Electric Series 103, 113 A/B data sets.

High speed couplers also available.

AJ342

An answer/originate acoustic coupler capable of transmitting and receiving data at up to 300 baud, compatible with EIA RS232 or 20 ma current loop interfaces, and Western Electric Series 103,



PRODUCT PREVIEW



DATA TERMINALS



SALES LEASING SERVICE

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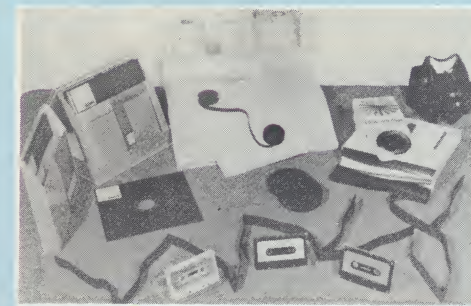
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SUPPLIES & ACCESSORIES



Computrend, Inc. provides all the supplies and accessories necessary to compliment our product line - from ribbons, tapes, diskettes, print-wheels, and paper, to specially designed accessories such as copy holders, baskets, and circuit breakers.

Of special interest is our line of data terminal stands. These terminal stands are not adaptations from other markets, but are the products of research, designed by Maine Manufacturing Company specifically for data processing use. They are large enough for operator efficiency, but require very little floor space, and they provide the sturdiness and security any terminal printer or CRT requires.

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As a distributor, Computrend, Incorporated has developed and attained a strong, supportive role in the computer peripheral industry.

In answer to the need for **fast, reliable service**, Computrend provides several alternatives to the maintenance question —

Maintenance agreements covering all parts, labor and travel are available for every product in our line.

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Our Guaranteed Service is performed by factory trained technicians who respond to your call from any one of our offices located in major cities near you.

Let us be of service to You!





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... LA-120

FEATURES

- Optimized 1200-baud communications
- Smart, bidirectional printing
- 14 baud rates and 8 split baud rates, selectable at the keyboard
- 180 character per second printing
- Adjustable character widths, from condensed to double-width
- Adjustable line spacing
- Margins, tabs and form settings adjustable from keyboard
- One-thousand character buffer
- 7 x 7 dot matrix printing
- 30-character answerback message
- EIA interface
- Exceptional human engineering throughout
- Self-test diagnostics initiated at power-up

The DECwriter III teleprinter provides exceptional performance in high speed communications environments.

To keep up with 1200-baud communications, the terminal prints in either direction based on the shortest route. Sometimes it prints forward, sometimes it prints backward. The terminal has time to calculate the shortest path, because incoming data first enters the 1,000-character buffer before it's printed. This buffer aids performance in another way, too: if the incoming message is coming in faster than the printer prints, the buffer can store the overflow. This lets you use your communication line at high efficiency.

To boost throughput still further, the terminal skips at high speed over white spaces, between lines as well as between words. And when actually printing, the terminal produces up to 180 characters per second.

Although rated at 1200 baud, DECwriter III is flexible. Line rates can be selected-right at the keyboard-from 50 to 9600 baud. And you can choose any of five half-or full-duplex modes.

SPECIFICATIONS

PRINTING

Max. Print Speed	180 cps
Paper Feed	Pin-feed, tractor drive handling fanfold paper up to 6 parts (0.020" thick max., 3"-14" wide)
Lines per inch	2, 3, 4, 6, 8, 12
Characters per inch	5, 6, 6.6, 8.25, 10, 12, 13.2, 16.5
Margins	Left/Right, Top/Bottom
Tabs	217 horizontal, 168 vertical

COMMUNICATIONS

Baud Rates (bps)	50, 75, 110, 134.5, 150, 300, 600, 1200, 1800, 2400, 4800, 7200, 9600
Split Speeds (bps)	600 or 1200 receive with 75 or 150 transmit; 2400 or 4800 receive with 300 or 600 transmit
Parity	Odd, even, or none
Interface	EIA standard
Character Codes	7-bit ASC11 plus ANSI- compatible escape sequences
Full Duplex Modem Control Protocols Answerback	Selectable XON/XOFF or restraint signal data synchronization 30 character, user- programmable
Half Duplex Modem Control Protocols	Coded control with or without reserve channel; reverse channel supervisory line control

MECHANICAL

Dimensions	27.5" W x 24" D x 69.9" H
Weight	107 lbs. (46.4 kg)
Power Input	87 to 128 VAC, 60 Hz; 4.2 Amps max. at 115 VAC
Heat Dissipation	440 Watts max. printing

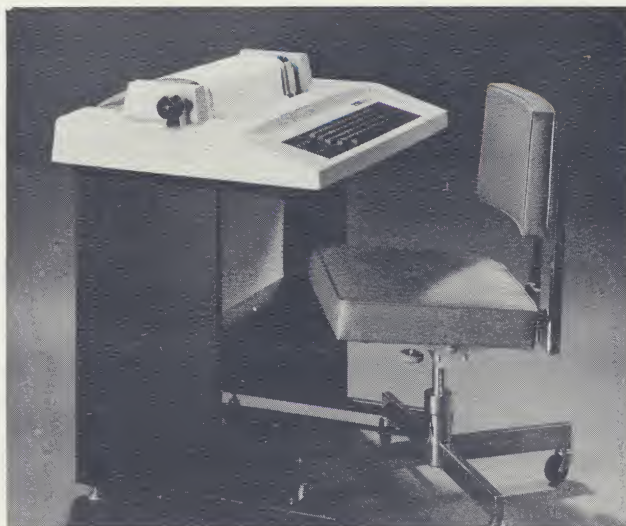


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INTRODUCES ...



... LA-36

STANDARD FEATURES

- True 30-character-per-second throughput via the use of a 16-character buffer and 60-cps catch-up mode
- 7 x 7 dot matrix impact-technology print head
- Up to 6-part forms (.020 maximum pack thickness)
- Variable-width forms handling, from 3 through 14-7/8 inches wide, via adjustable width tractor feed
- 132-column print; 10-characters-per-inch horizontal spacing
- 6-lines-per-inch vertical spacing
- 128-character ASCII upper/lower case set (95 printable characters)
- Crisp, clear and straight character formation
- Integrated 20 mA current loop interface; passive mode standard with jumpers to activate the active mode
- Fine vertical adjustment for accurate forms placement
- Adjustable right-and left-hand tractors for margin positioning
- Half-or-full-duplex control on operator's control panel
- Parity check on output prints replacement character (III); strappable to odd, even, or none with mark or space
- Last-character visibility (after 1300 ms timeout, head moves 4 columns to the right; returns automatically when printing is resumed)
- Integral stand
- ANSI-standard multi-key rollover; typewriter-like keyboard
- Power-on condition (standard character lamp)

The LA36 DECwriter II is an advanced-technology teleprinter designed to offer fast, reliable operation with the best price/performance ratio of any 30-cps teleprinter in the industry. The DECwriter II is equally at home in communications applications or computer console applications.

DECwriter II is loaded with many practical functional and operator features. Among these are the true 30-cps throughput accomplished by a 60-cps catchup mode which is activated any time more than one character is present in the 16-character buffer. Also featured are quiet 48 db operation, infinitely variable vertical forms adjustment, variable width, up to six part forms handling and countless other features.

The integral stand design always provides correct height for easy operator use of the typewriter-style keyboard.

**LA34**

FEATURES

- Low cost, convenient desk-top design
- Developed to feel and operate like a typewriter
- Prints the full 128 ASCII character set
- Switch-selectable 110 and 300 baud rates
- True 30 cps print speed
- Adjustable character widths
- Adjustable line spacing
- Clear character printing through 9 x 7 dot matrix print head

The LA34 DECwriter IV teleprinter sets new standards for convenience in computer and data communications terminals.

This low-cost terminal is small and lightweight, a natural for the office environment. The keys are sculptured and arranged like a typewriter's. The ribbon is a cartridge, snap-in style arrangement. The paper advance is the standard platen that works like any typewriter.

Low cost, convenience, reliability. DECwriter IV is the ideal terminal for 300-baud office communications.

OPERATING FEATURES

DECwriter IV is designed throughout for operator simplicity. For example, there's the ribbon cartridge that snaps in and out as easily as that. There's the VIEW key that the operator uses for last character visibility - it only happens when the operator wants it to happen, so unnecessary print head motion won't be a distraction during the typing. Automatic line feed is standard, and switch selectable.

And then there is the off-line set-up mode, in which the operator can select a range of performance parameters at the keyboard as easily as pressing a key. This versatility makes the terminal useable for almost any kind of office function.

SPECIFICATIONS

PRINTING

Print speed:	10 or 30 cps, asynchronous
Slew speed:	5 inches per second
Print Columns:	132
Print characters:	128-character ASCII set
Type font:	9x7 dot matrix impact printing
Horizontal spacing:	10, 12, 13.2, or 16.5 characters per inch, keyboard selectable
Vertical spacing:	2, 3, 4, 6, 8, or 12 lines per inch, keyboard selectable.

MECHANICAL

Dimensions:	22"W x 7"H x 15½"D
Weight	25 lbs.

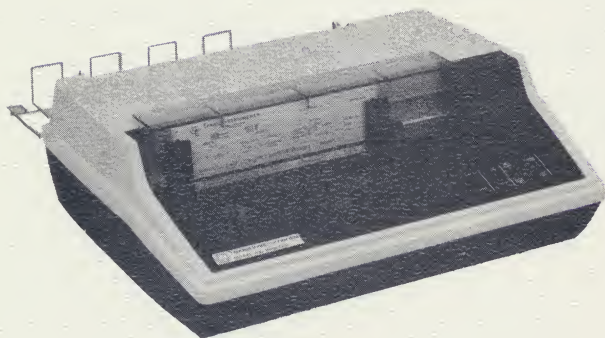
COMMUNICATIONS

Code:	ANSI standard
Bit structure:	Bit serial. At 110 & 300 baud: 1 start, 7 data, 1 parity, 1 stop bit.
Parity:	Switch-selectable to even, odd, mark or space.



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**TI810**

The TI810 Receive-Only Printer has some features you usually don't find for such a small price.

Its optimized bi-directional printing for instance. By being able to print bi-directionally, it minimizes printhead travel time and maximizes efficiency.

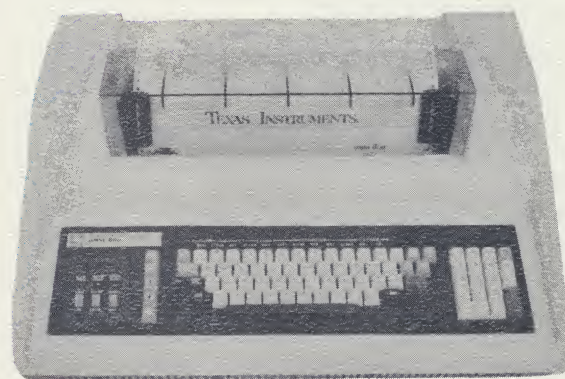
Its vertical and horizontal tabbing, combined with the bi-directional printing, produces maximized data throughout, regardless of the format.

The 810 has a 256-character FIFO buffer that lets you receive data at speeds up to 9600 baud.

It has programmable forms length. A wide carriage that can handle multiple-part forms, tickets and reports from 3 to 15 inches in width. And a 9 x 7 dot matrix character font that prints clearer, more legible characters of an original, and up to five high quality copies.

The 810's adjustable tractor drives make it easy to operate. Once a form has been engaged by the tractor drives, alignment can be made at the main control panel. And adjustments for forms thickness control can be made by use of the printhead-to-platen adjustment while the 810 is printing.

The 810 has both rear and bottom paper/forms loading. And its status and fault indicators supplement a selftesting capability that verifies its electronic circuitry and electromechanical assemblies.

**TI820**

The TI820 is a tabletop, multi-copy, send-and-receive terminal that can communicate serial, asynchronous data at rates from 110 to 9600 baud. It can print at speeds of up to 150 characters-per-second.

And it can function as either an interactive terminal or as a remote input/output unit in a time-share, computer console, or data entry environment.

The 820's 9 x 7 dot matrix format printhead produces clear, legible characters. And that means maximum print quality of an original and up to five copies.

The wide carriage can handle multiple-part forms from 3 to 15 inches in width. And print up to 132 characters across. That's standard too.

Also, there's a 640-character FIFO buffer. It channels all data to be printed, monitoring the number of characters enroute and in storage, so that it can print at maximum efficiency — either uni-directional, or bi-directional.

Many other standard and optional features result in an impact terminal that combines high performance with low cost.

TI810

STANDARD FEATURES

- Baud rates (110 to 9600)
- Parity checking
- Single or double line spacing
- Auto perforation skip
- Auto line feed/carriage return
- Adjustable wide carriage (132 column)
- Up to five clear copies (plus one original)
- Built-in self-test capability
- 150cps optimized bi-directional printing
- Serial EIA RS-232-C interface
- Operator/software programmable vertical tabs
- Horizontal tabs
- 9 x 7 character font
- 256-character FIFO buffer
- Tabletop operation
- Rear or bottom feed
- Acoustic baffling

OPTIONAL FEATURES

- A full ASCII character set
- Compressed character printing on 8½ inch forms (available only with forms length or vertical forms control options)
- Current loop or parallel interfaces
- Forms length control that offers eleven selectable fixed form lengths or any user form length up to 14 inches
- Vertical forms control that gives you resident nonvolatile storage of up to eight forms programs (Operator selectable of downline loadable)
- International character sets
- Tear bar
- Heavy-duty stand and stacking tray

TI820

STANDARD FEATURES

- Serial EIA RS-232-C interface
- Operator-selectable: Parity checking; Auto line feed/carriage return
- Operator-adjustable: tractor drivers/carriage (up to 132 columns); Printhead-to-platen for forms thickness control
- Full/half duplex, half duplex with reverse channel
- Paperout/jam/fault-detection and signal
- Up to five clear copies plus one original forms printing

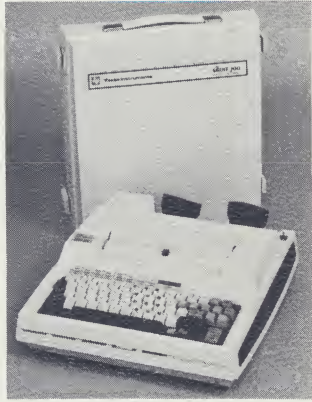
OPTIONAL FEATURES

- Acoustic baffling
- Tabletop operation/rear or bottom feed
- Compressed character printing offering 16.5 characters per inch and 132-column printing on 8½-inch paper
- ASCII/APL keyboard
- International character sets
- 20-milliampere current loop
- Nonvolatile forms control
- Heavy-duty stand and stacking tray



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All of the functions required for data collection, manipulation, storage, and transmission are included as standard features of the Model 765/763 and the user can select various configurations via the terminal keyboard.

The Table-Top Model 765/763 Memory Send/Receive Terminal.

The *Silent 700** Model 765/763 Memory Data Terminals are easy to use information gathering devices which allow the user to store required information at the originating source. This information can be transferred immediately into existing data processing equipment, thus eliminating all time consuming intermediate steps.

The new models are portable and weigh approximately 17 pounds. Each has a typewriter style keyboard, a quiet thermal printer, and a non-volatile magnetic bubble memory capable of storing 20,000 to 80,000 characters. The full editing capability of stored data allows the user to send only the corrected data to the central processing equipment and burst mode transmission reduces on-line telephone expenses. The model 765 has a built-in acoustic coupler so that communications can be accomplished using any desk telephone set. The Model 763 offers an optional originate only 113A type internal modem or a D.C. current loop interface. Both Models 765 and 763 provide EIA RS-232C compatible interface port for connection to an external asynchronous modem or for *hard wired* interfacing to other EIA RS-232C compatible devices.

TYPICAL APPLICATIONS

The Model 765/763 data terminals with memory offer powerful, efficient and economic solutions to the data entry, data capture, data communications problem associated with virtually all types of business applications:

- Wholesale and retail order entry
- Inventory data collection and reporting
- Newspaper reporting
- Insurance inquiry, sales and claims
- Many others

With the extended device control feature, the terminals have the capability of providing forms prompting.

QUIET PRINTING

TI's unique solid state printhead gives 30 characters per second printing eliminating undesirable noise associated with most other printers.

BUBBLE MEMORY STORAGE

Using TI's new magnetic bubble memory technology allows non-volatile data storage and eliminates reliability problems associated with storage media requiring moving parts or batteries.

DUAL COMMUNICATIONS PORTS

The Model 765/763 provide two communications ports. One is an external EIA port; the other is an internal modem, D.C. current loop or acoustic coupler port. Both ports can be physically connected to its interfacing device. However, only one port can be activated at a time.

USER SELECTABLE CONFIGURATION

All the configuration parameters in the Model 765/763 can be changed by the user employing the COMMAND Key on the keyboard and followed by typing the desired change command in *English Text* form. These parameters include the parity, communications mode, answer back memory contents, communications baud rate, communications port select, designate record or playback file, designate end of line character and programmable key, enable (or disable) EDC (Extended Device Control), EOT disconnect, and buffered operation.

Specifications.

1. Printer

METHOD: Non-impact thermal printer; 5 x 7 dot matrix electronically heated on thermographic paper.

CHARACTER SET: 95 printable USASCII characters in normal mode with additional 33 control USASCII characters printed in edit mode.

CHARACTER SIZE: 0.105 in. x 0.080 in.

LINE LENGTH: 8 inches; 10 characters/inch; 80 characters/line.

LINE SPACING: 6 lines/inch.

PRINTING RATE: up to 30 characters/second.

PAPER: TI thermographic printing paper, no. 972603; 8½ in. x 100 ft.; last 10 ft. color coded.

PLATEN: Friction-feed.

CARRIAGE RETURN AND LINE FEED:

Automatic at column 81; no code is transmitted.

The 81st character received is buffered and printed on the next line.

2. Keyboard

CODE: USASCII; 128 codes generated.

3. Physical

SIZE: Width, 15.4 in.; Depth, 16.0 in.; Height, 5.5 in.; Weight, 17 pounds (including paper); Model 763, 16 pounds.

4. Environment

TEMPERATURE: operating, 10°C to 40°C; storage, -30°C to 70°C (without paper), -30°C to 40°C (including paper).

HUMIDITY: operating, 10% to 90% (no condensation); storage, 10% to 95% (no condensation).

SHOCK: operating, 0g.; storage, 20g. for 11 msec.

VIBRATION: operating, 0g., 10 to 60 Hz; storage, 1.5g., 5 to 500 Hz.

5. Power Requirements

VOLTAGE: 115 volts RMS, + 10%-15%.

FREQUENCY: 47-63 Hz.

POWER: 100 watts maximum.

6. Data Transmission

METHOD: asynchronous; serial-by-bit; serial-by-character.

CODE: USASCII; 7-level, 11 bits/character including parity, start, and two stop bits at 10 characters/second; 10 bits/character including one stop bit at speeds above 30 characters/second.

MODE: operator selectable half or full duplex.

PARITY: operator selectable odd, even, or mark parity; operator selectable parity checking.

RECEIVED DATA BUFFERING: character buffering on received data, permitting true 30 characters/second operation (no filler characters required after CR or LF).

TRANSMITTED DATA BUFFERING: operator selectable line buffering on data to be transmitted, permitting corrections prior to transmission.

INTERFACE: operator selectable integral acoustic coupler/d.c. current loop/originate modem or EIA interface.

BAUD RATES: operator selectable 110 or 300 baud on integral interface or up to 9600 baud on EIA interface.

7. Integral Acoustic Coupler

COMPATIBILITY: Bell System 103/113 data sets.

MODE: Originate.

MODULATION: Frequency shift keying (FSK).

TRANSMIT CARRIER FREQUENCIES: Mark, 1270 Hz; Space, 1070 Hz.

RECEIVE CARRIER FREQUENCIES: Mark, 2225 Hz; Space, 2025 Hz.

TRANSMIT LEVEL: Adjustable from 20dBm to 5dBm.

RECEIVER SENSITIVITY: -30dBm with full duplex and 300 baud operation.

8. EIA Interface

OPTIONAL AUXILIARY EIA INTERFACE

KIT: used to interface the terminal to an external device such as a modem. Interface cable is a minimum of 6 feet in length and terminates with a 25-pin male connector (cannon #DB25P or equivalent).

FOR FURTHER INFORMATION ON PRICES AND DELIVERY, OR A DEMONSTRATION, CALL THE OFFICE NEAREST YOU, OR CALL OUR TOLL FREE NUMBER OUTSIDE OF MASSACHUSETTS.



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Presents

TEXAS INSTRUMENTS

Model 745 Portable Data Terminal



Access to your home office computer can be as close as the nearest telephone and electrical outlet . . . *anywhere*. At just 13 pounds, the Model 745 Portable Data Terminal has that *briefcase mobility* which enables you to get the right information on-the-spot . . . when it counts.



FEATURES

HIGH SPEED

Permanent records are printed at operator selectable speeds of 10 and 30 characters per second. Increased efficiency is achieved with true 30 cps throughput, i.e., no filler characters required after line feed or carriage return characters.

QUIET OPERATION

TI's unique solid state printhead develops characters on thermal sensitive paper and eliminates the undesirable noise associated with impact printing.

MICROPROCESSOR RELIABILITY

TI microprocessor, MOS/LSI integrated circuits, solid state printhead, and a minimum of moving parts are keys to performance and reliable, long life operation.

STANDARD FEATURES

- 5 x 7 dot matrix with print contrast control
- Built-in solid state acoustic coupler for communication via switched telephone network

- Switch selectable half or full duplex
- Briefcase-like carrying case
- Standard ASCII keyboard with calculator-type embedded numeric keypad and two key roll-over feature.

OPTIONAL FEATURES

- **AUXILIARY EIA INTERFACE CABLE KIT** — Enables operation of the Model 745 with such external devices as modems, data loggers, cassette recorders, minicomputers, etc., as well as in its standard configuration.
- **ANSWERBACK MEMORY** — Factory set, read-only memory transmits serially up to 21 USASCII characters as a *station identification*. The answerback memory is activated locally by the HERE IS key and is triggered remotely via receipt of the ENQ character:

- **FULL ASCII KEYBOARD** — Standard Model 745 will decode and print lower case data received from the communications line as upper case characters. The Full ASCII Keyboard option enables the user to generate lower case data from the keyboard for direct transmission. The option provides an UPPER CASE ONLY key which prevents the Full ASCII Keyboard from generating lower case data for those applications where the user does not desire lower case.
- **Dual APL/Full ASCII Keyboard** — This option offers the user switch selectable APL or Full ASCII character sets. Other key features include backspace function, character repeat, and 5 x 5 font for true underscore.

Model 745 specifications

KEYBOARD

CODE — USASCII; 97 codes generated

CHARACTER SET — 64 printable characters, 33 control characters

NUMERIC KEY PAD — Embedded 12 key calculator-style numeric cluster

PRINTER

METHOD — Non-impact, thermal page printer; 5 x 7 dot matrix electronically heated on thermographic paper

CHARACTER SET — 69 printable characters (received lower case translated to upper case)

CHARACTER SIZE — 0.105 in. x 0.080 in.

LINE LENGTH — 8 inches; 10 characters/inch; 80 characters/line

LINE SPACING — 6 lines/inch

PRINTING RATE — Switch selectable 10 or 30 characters/second

PAPER — T1 thermographic printing paper, No. 972603 (white), 8 1/2 in. x 100 ft.; last 10 ft. color coded

PLATEN — Friction-feed

VISIBILITY — At least 50 previous lines of print, including current line and last character printed

CARRIAGE RETURN AND LINE FEED — Automatic at column 81; no code is transmitted. The 81st character received is printed on the next line

OPERATOR CONTROLS

SPEED — Low/high (10/30 cps)

DUPLEX — Half/Full

TRANSMIT LEVEL — Low/High

CONTRAST — Light/Dark

PAPER ADVANCE — 30 lines/second while depressed

POWER — On/Off

STATUS — On Line/Local

INDICATORS

CARRIER — Carrier detect

BELL — 250 msec. audible tone

PHYSICAL

SIZE — Width: 14.6 in.; Depth: 15.25 in.; Height: 4.25 in.

WEIGHT — 11.2 pounds (including paper)

ENVIRONMENT

TEMPERATURE — Operating 10°C to 40°C; Storage: -30°C to 70°C (without paper); -30°C to 40°C (including paper)

HUMIDITY — Operating: 10% to 90% (no condensation); Storage: 10% to 95% (no condensation)

SHOCK — Operating: 0 g.; Storage: 20 g. for 11 msec.

VIBRATION — Operating: 0.5 g., 10 to 60 Hz.; Storage: 1.5 g., 5 to 500 Hz.

POWER REQUIREMENTS

VOLTAGE — 115 volts RMS, + 10% - 15%

FREQUENCY — 47 - 63 Hz.

POWER — 75 watts maximum

DATA TRANSMISSION

METHOD — Asynchronous; serial-by-bit, serial-by-character

CODE — USASCII; 7-level, 11 bits/character including parity, start, and two stop bits at 10 characters/second; 10 bits/character including one stop bit at 30 characters/second

MODE — Switch selectable half or full duplex

PARITY — Optional odd, even, or mark parity (factory set)

BUFFER — Character buffering on received data, permitting true 30 characters/second operation

TRANSMISSION RATES

BAUD RATE — Switch selectable 110 or 300 baud

CARRIAGE RETURN TIME — 195 msec. (no filler characters required)

LINE FEED TIME — 33 msec.

INTEGRAL ACOUSTIC COUPLER

COMPATIBILITY — Bell System 103/113 data sets

MODE — Originate

MODULATION — Frequency shift keying

TRANSMIT CARRIER FREQUENCIES — Mark: 1270 Hz., Space: 1070 Hz.

RECEIVE CARRIER FREQUENCIES — Mark: 2225 Hz., Space: 2025 Hz.

TRANSMIT LEVEL — Adjustable from -20 dBm to 15 dBm

RECEIVER SENSITIVITY — 30 dBm with full duplex and 300 baud operation

USASCII Character Set System (ANSI X3.4-1968)

Bits	b7 b6 b5				COLUMNS							
	b4	b3	b2	b1	0	1	2	3	4	5	6	7
0	0	0	0	0	NUL	DLE	SP	0	@	P	~	
1	0	0	0	1	SOH	DC1	!	1	A	O	j	
2	0	0	1	0	STX	DC2	"	2	B	R	i	
3	0	0	1	1	ETX	DC3	#	3	C	S	r	
4	0	1	0	0	EDT	DC4	\$	4	D	T	d	
5	0	1	0	1	ENQ	NAK	%	5	E	U	u	
6	0	1	1	0	ACK	SYN	&	6	F	V	v	
7	0	1	1	1	BEL	ETB	'	7	G	W	w	
8	1	0	0	0	BS	CAN	(	8	H	X	h	
9	1	0	0	1	HT	EM	)	9	I	Y	y	
10	1	0	1	0	LF	SUB	+	J	Z	l	z	
11	1	0	1	1	VT	ESC	*	K	[	l	k	
12	1	1	0	0	FF	FS	<	L	\	l	j	
13	1	1	0	1	CR	GS	=	M	]	m	i	
14	1	1	1	0	SO	RS	>	N	_	n	o	
15	1	1	1	1	SI	US	/	O	~	o	del	

- Non-Printable Characters
- Translated to Uppercase Upon Reception
- Printed upon Reception but not Generated

1	2	3	4	5	6	7	8	9	0	*	-	HERE IS	PAPER ADV
ESC	Q	W	E	R	T	Y	U	I	O	P	LF	RETURN	BREAK
CTRL	A	S	D	F	G	H	J	K	L	+	RUB OUT	REPT	LOW SPEED
SHIFT	Z	X	C	V	B	N	M	1	2	3	?	SHIFT	HALF DUP
NUMBERS													ON LINE

CARRIER DETECT INDICATOR

AUXILIARY EIA INTERFACE SPECIFICATIONS

An optional auxiliary EIA interface kit provides for a separate EIA RS-232-C interface to the terminal's printer/keyboard and acoustic coupler. The kit contains a jumper connector for operation in the standard configuration and an interface cable with two legs for operation with external devices. Each leg of the interface cable has a minimum length of 6 feet.

COUPLER EIA INTERFACE LEG

Used to interface the internal acoustic coupler to an external device such as a cassette recorder. Terminates with a 25-pin female connector (Cannon #DB25S or equivalent).

TERMINAL EIA INTERFACE LEG

Used to interface the keyboard and printer to an external device such as a modem or CRT. Terminates with a 25-pin male connector (Cannon #DB25P or equivalent).

DEVICE PINS	FUNCTION	DEVICE PINS	FUNCTION
1	Protective Ground	1	Protective Ground
2	Transmitted Data	2	Transmitted Data
3	Received Data	3	Received Data
5	Clear to Send ¹	7	Signal Ground
6	Data Set Ready ²	8	Data Carrier Detect ¹
7	Signal Ground	20	Data Terminal Ready ²
8	Data Carrier Detect ³		

¹ Held to EIA ON by external equipment to allow transmission — required for transmission.

² Held to EIA ON by external equipment when coupler is operative — required for operation.

³ Held to EIA ON by external equipment during receipt of carrier — required for data reception.

¹ Held to EIA ON when terminal is on line.

² Held to EIA ON by external equipment during receipt of carrier — required for data reception.



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Presents

TEXAS INSTRUMENTS

Model 743 Keyboard Send-Receive Data Terminal



The compact Model 743 KSR with USASCII code and either EIA RS-232-C serial interface or serial dc-current loop interface... ideal for computer input/output.

FEATURES

HIGH SPEED

Permanent records are printed at operator selectable speeds of 10 and 30 characters per second. Increased efficiency is achieved with true 30 cps throughput, i.e., no filler required after line feed or carriage return characters.

QUIET OPERATION

TI's unique solid state printhead develops characters on thermal sensitive paper and eliminates the undesirable noise associated with impact printing.

MICROPROCESSOR RELIABILITY

TI microprocessor, MOS/LSI integrated circuits, solid state printhead, and a minimum of moving parts are keys to performance and reliable, long life operation.

STANDARD FEATURES

- 5 x 7 dot matrix with print contrast control

- Switch selectable half or full duplex operation
- EIA RS-232-C serial interface or serial dc-current loop interface
- Standard ASCII keyboard with *calculator-type* embedded numeric key pad and two key roll-over.

OPTIONAL FEATURES

- **Answerback Memory** — Factory set, read-only memory transmits serially up to 21 USASCII characters as a "*station identification*". The answerback memory is activated locally by the HERE IS key and is triggered remotely via receipt of the ENQ character.
- **Internal Modem** — Built-in 300 baud modem (*originate* mode) enables communication via switched telephone network. Modem is compatible with Bell 100 series data sets.

- **Auxiliary EIA Interface Cable Kit** — Kit enables operation of the Model 743 with such external devices as modems, acoustic couplers, data loggers, cassette recorders, minicomputers, etc. Available only when optional internal modem is installed.

APPLICATIONS

- Insurance program planning
- Computer input/output
- Communication networks
- Minicomputer consoles
- Computer timesharing systems
- Inventory reporting and control
- Remote order entry and acknowledgment.

Model 743 specifications

KEYBOARD

CODE — USASCII; 97 codes generated

CHARACTER SET — 64 printable characters, 33 control characters

NUMERIC KEY PAD — Embedded 12 key calculator-style numeric cluster

PRINTER

METHOD — Non-impact, thermal page printer; 5 x 7 dot matrix electronically heated on thermographic paper

CHARACTER SET — 69 printable characters (received lower case translated to upper case)

CHARACTER SIZE — 0.105 in. x 0.080 in.

LINE LENGTH — 8 inches; 10 characters/line; 80 characters/line

LINE SPACING — 6 lines/inch

PRINTING RATE — Switch selectable 10 or 30 characters/second

PAPER — TI thermographic printing paper, No. 972603 (white), 8½ in. x 100 ft.; last 10 ft. color coded

PLATEN — Friction-feed

VISIBILITY — At least 50 previous lines of print, including current line and last character printed

CARRIAGE RETURN AND LINE FEED — Automatic at column 81; no code is transmitted. The 81st character received is printed on the next line

OPERATOR CONTROLS

SPEED — Low/high (10/30 cps)

DUPLEX — Half/Full

TRANSMIT LEVEL — Low-High

CONTRAST — Light - Dark

PAPER ADVANCE — 30 lines/second while depressed

POWER — On/Off

STATUS — On Line/Local

INDICATORS

CARRIER — Carrier detect

BELL — 250 msec. audible tone

PHYSICAL

SIZE — Width: 14.6 in.; Depth: 15.25 in.; Height: 4.25 in.

WEIGHT — 11.2 pounds (including paper)

ENVIRONMENT

TEMPERATURE — Operating 10°C to 40°C; Storage: -30°C to 70°C (without paper); -30°C to 40°C (including paper)

HUMIDITY — Operating: 10% to 90% (no condensation); Storage: 10% to 95% (no condensation)

SHOCK — Operating: 0 g.; Storage: 20 g. for 11 msec.

VIBRATION — Operating: 0.5 g., 10 to 60 Hz.; Storage: 1.5 g., 5 to 500 Hz.

POWER REQUIREMENTS

VOLTAGE — 115 volts RMS, +10% - 15%

FREQUENCY — 47 - 63 Hz.

POWER — 75 watts maximum

DATA TRANSMISSION

METHOD — Asynchronous; serial-by-bit, serial-by-character

CODE — USASCII; 7-level, 11 bits/character including parity, start, and two stop bits at 10

characters/second; 10 bits/character including one stop bit at 30 characters/second

MODE — Switch selectable half or full duplex

PARITY — Optional odd, even, or mark parity (factory set)

BUFFER — Character buffering on received data, permitting true 30 characters/second operation

TRANSMISSION RATES

BAUD RATE — Switch selectable 110 or 300 baud

CARRIAGE RETURN TIME — 195 msec. (no filler characters required)

LINE FEED TIME — 33 msec.

DATA INTERFACE SPECIFICATIONS

de-Current Loop Serial Interface	A. Nominal operating current is 20 ma. B. Less than 1.5 V (transmit) and 3 V (receive) drop across contacts while marking. C. A 6 foot cable with 4 spade lugs is supplied.	WIRE COLOR	FUNCTION
		White	Positive Receiver Input Loop
		Green	Receiver Input Loop
		Black	Positive Transmitter Output Loop
		Red	Transmitter Output Loop

EIA RS-232-C Serial Data Interface	A. Standard EIA RS-232-C interface cable has 6 foot minimum length terminating with a 25-pin male connector.	DEVICE PINS	FUNCTION
		1	Protective Ground
		2	Transmitted Data
		3	Received Data
		7	Signal Ground
		8	Data Carrier Detect ¹
		20	Data Terminal Ready ²

¹ Held to EIA ON by external equipment during receipt of carrier — required for data reception

² Held to EIA ON when terminal is on line

300 Baud Integral Modem	A. Conforms to Bell Data Access Arrangement CDT. B. Originate mode. C. A 6 foot cable with 2 spade lugs is supplied with the integral modem option.	WIRE COLOR	FUNCTION
		Red	Data Tip (DT)
		Black	Data Ring (DR)

Auxiliary EIA Serial Interface	A. Applicable only if 300 baud modem option is installed. B. Provides for a separate EIA RS-232C interface to the keyboard/printer and the modem to allow connection to an external device(s). C. Supplied is a cable with three legs, each of which has a minimum length of 6 feet. The pin assignments are: 1. Keyboard/Printer Leg — identical to EIA cable above. 2. Modem (DAA) Leg #1 — identical to modem cable above. 3. Modem Leg #2 — as described to the right.	DEVICE PINS	FUNCTION
		1	Protective Ground
		2	Transmitted Data
		3	Received Data
		5	Clear to Send ¹
		6	Data Set Ready ²
		7	Signal Ground
		8	Data Carrier Detect ³

¹ Held to EIA ON by external equipment to allow transmission — required for transmission.

² Held to EIA ON by external equipment when coupler is operative — required for operation.

³ Held to EIA ON by external equipment during receipt of carrier — required for data reception.

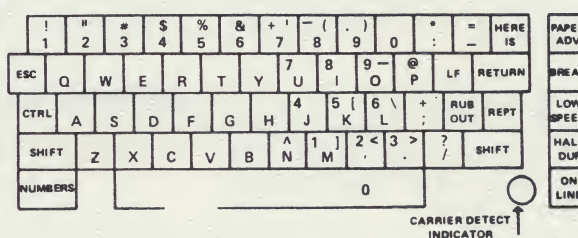
USASCII Character Set System (ANSI X3.4-1968)

Bits	b7 b6 b5				COLUMN	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0															
	b4	b3	b2	b1		0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
	0	0	0	0	0	NUL	DLE	SP	0	@	P	-	~								
	0	0	0	1	1	SOH	DC1	..	1	A	O	~	q								
	0	0	1	0	0	STX	DC2	..	2	B	R	~	t								
	0	0	1	1	0	ETX	DC3	#	3	C	S	~	c								
	0	1	0	0	0	EOT	DC4	\$	4	D	T	~	d								
	0	1	0	1	0	ENQ	NAK	%	5	E	U	~	u								
	0	1	1	0	0	ACK	SYN	&	6	F	V	~	v								
	0	1	1	1	0	BEL	ETB	'	7	G	W	~	w								
	1	0	0	0	0	BS	CAN	(	8	H	X	~	x								
	1	0	0	1	0	HT	EM	)	9	J	Y	~	y								
	1	0	1	0	0	LF	SUB	*		K	Z	~	z								
	1	0	1	1	0	VT	ESC	+		L	[	~	{								
	1	1	0	0	0	FF	FS	-		M	\	~									
	1	1	0	1	0	CR	GS	.		N	]	~	~								
	1	1	1	0	0	SO	RS	>		O	^	~	~								
	1	1	1	1	0	SI	US	/			~	~	~								

Non-printable Characters

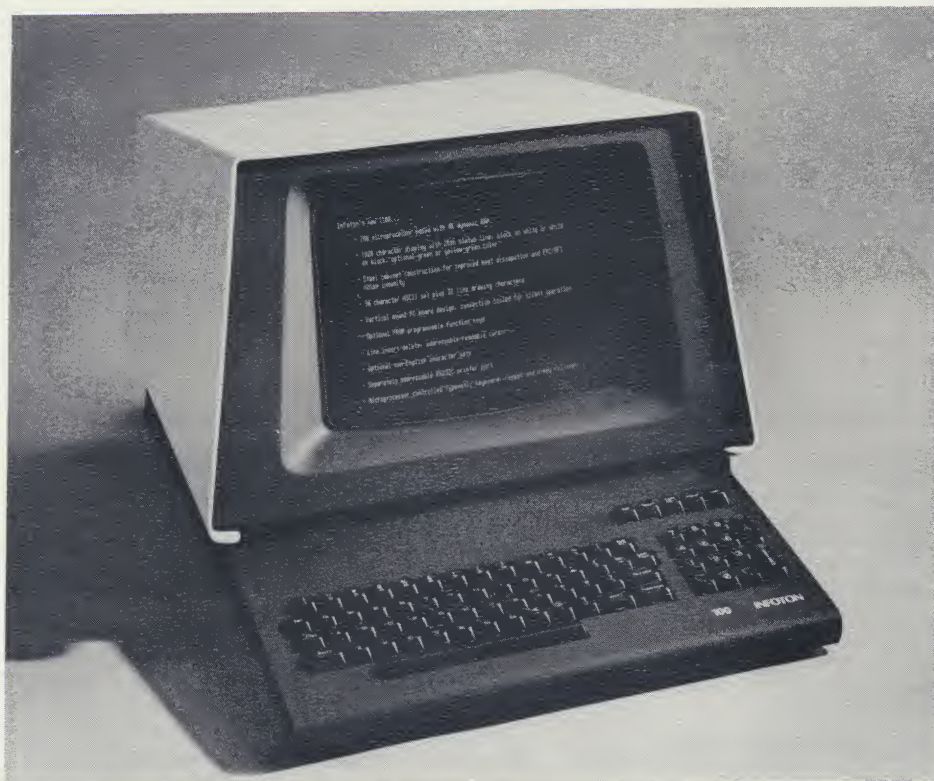
Translated to Uppercase upon Reception

Printed upon Reception but Not Generated



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INFOTON 100

The I-100 embodies many features found only in more expensive terminals. It not only outperforms competitive terminals, it emulates many of them. And its futuristic styling will enhance any environment.

Low cost options for Block Mode with Protected/Unprotected Fields and Programmable Function Keys are available.

With its innovative I-100, Infoton delivers what the market has been asking for. A low priced, high performance terminal with a look of elegance and performance to match.

INTERFACE

The Infoton 100 provides both EIA RS-232C and 20 Milliampere current loop interface with Start/Stop character format.

Switch-selectable data rates are 110, 200, 300, 1200, 2400, 4800, 9600, 19200, bits per second.

Four parity selections are available: Odd or Even transmitted and checked, mark or space transmitted but not checked. Two stop bits at 110 baud, one at all other speeds.

An EIA serial printer port is also provided as standard.

KEYBOARD COMMAND FUNCTIONS

Solid state design using capacitively coupled key switch.
Typematic.
15 characters per second repeat rate.
15 key numeric cluster
Home.
Insert/Delete Line.
Erase Line.
Erase Page.
Copy on/off.
Print Page.
Caps only.
Line/Local.
Forward Tab, Back Tab.
Transmit.

DATA LINE COMMAND FUNCTIONS

X, Y Cursor addressing.
Incremental cursor positioning.
Cursor read command.
Keyboard lock/unlock.
Block/Character mode.
Tab/Back Tab/Columnar Tab set/Tab clear.
Half/Full intensity.
Insert/Delete Line.
Erase Line/Page.
Erase from Cursor to end of line.
Erase from Cursor to end of screen.
Printer Interface on/off.
Display Interface on/off.
Print Page.
Line Feed, Carriage Return, New Line.
Bell.
Line Drawing

ENGINEERING HIGHLIGHTS

Z80, 4 K dynamic ROMs.
Extensive use of large scale integration for video control.
Direct micro-processor control of keyboard scanning for versatility, lower cost and higher reliability.
All steel packaging for ruggedness, noise immunity, increased EMI and RFI shielding and heat dissipation.
Vertically mounted, single PC board design for integral mounting with TV chassis and improved cooling.
Convection cooled no-fan design for improved reliability and silent operation.

OPTIONAL FEATURES

Block Mode.
Protected Field.
Insert/Delete Character.
Eight (8) Function keys (expandable) generating up to 32 pre-set sequences.
Composite Video Output.
Data Cable.
Green Phosphor.
Micro-program control option for:
Setting Function key sequences.
Defining escape and control sequences.
Emulations of popular CRT displays:

- ADM-3A.
- ADDS Consul 520.
- Hazeltine 1400.
- Hazeltine 1500.
- Perkin-Elmer Fox.
- DEC VT-52.



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DT 80/1: VIDEO TERMINAL

The DATAMEDIA DT 80/1 is a basic terminal that is affordable and easy to operate. Offering the first plug to plug compatibility with the VT100, the DT 80/1 provides many features not available in competitive look-a-likes.

Most importantly the DT 80/1 standard model includes two features which are only available as extra cost options on comparable terminals.

- Full advanced video package includes bold characters, blink, underline, reverse video in any combination and alternate character set.
- Up to 24 lines of either 80 or 132 characters each.



FEATURES

Engineering Highlights

- VT100 compatibility
- Full printer control
- Compact video module
- Large display area
- Rugged all metal housing
- Simple access to cables and accessories

CRT Saver Capability

- Automatic shut off after 5 minutes inactivity
- Depression of any key instantly restores display unchanged
- Greatly prolonged video life

SPECIFICATIONS



Keyboard

- Detachable keyboard
- Plug-in six foot coil cord for optimum space flexibility
- 66 key basic keyboard
- 18 key numeric/function cluster
- Auto repeat
- Selectable sonic key click

Display

- 6" x 9" display area
- Split screen
- Double width - double size characters
- Dual intensity
- Bidirectional smooth scrolling
- Limited graphics
- 128 character ASCII
- Composite video input/output
- Blinking and underscoring
- Cursor addressing and sensing
- 7 x 9 dot matrix

Set Up Mode

Keyboard-selectable functions

- Full screen reverse or normal video
- Baud rates
- Line length
- Tab set
- Communication speeds
- Operating variables
- Self diagnostics

Internal

- Microprocessor based logic
- Two-serial I/O ports
- EIA RS-232-C asynchronous or (optionally) 20 milliamp current loop

Weight

Monitor 13.49 kg (29.75 lbs.)
Keyboard 3.15 kg (6.95 lbs.)



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VT100 VIDEO TERMINAL

The VT100, DIGITAL's high performance video display terminal, is easily upgraded and designed to provide the utmost in flexibility. The typewriter-like keyboard of the VT100 makes the transition from typewriter to terminal much easier for personnel not trained in the use of computers.

The VT100, affordable and easy to use, offers features not found in other entry-level terminals.

These features include double-width/double-size characters, up to 132 column lines, detachable keyboard, smooth scrolling, split screen, and composite video output to facilitate use.

FEATURES

Human Engineering

- Sculptured typewriter-like detachable keyboard
- Standard numeric/function keyboard
- Selectable double-size characters
- Up to 132 characters per line
- Bi-directional smooth scrolling
- Split screen capability
- 7 x 9 dot matrix
- Normal or reverse video on a character-by-character basis
- Optional blinking, underline, and dual intensity characters
- Black characters on white screen or vice versa, user-selectable
- Fixed and selectable tabs
- US and UK character sets
- Line drawing graphic characters
- Terminal is 20 inches deep, small enough to fit on a standard typewriter table.

Maintainability

- Exceptionally easy to service
- Built-in self-test diagnostics on power up

Engineering

- Easily upgraded to a more sophisticated system
- Composite video output for auxiliary monitors
- Composite video input for video overlay
- Universal power supply (90-1800V RMS, 180-256V RMS; 47-63 Hz)
- Transmission speeds up to 19,200 baud
- VT52 compatibility mode for easy upgrade
- Seven light-emitting diodes for operator information/diagnostic aids
- Non-volatile Random Access Memory holds feature settings
- Full-duplex, asynchronous communications lines

Character Attributes

The VT100 features a 7 x 9 *matrix* character font that is very readable. The 7 x 9 dot matrix is displayed in a 10 x 10 space and supports a two-dot descender on lower case characters for easier reading.

The VT100 features *normal and reverse video* that can be set on a character-by-character basis. This video attribute provides the ability to emphasize visually portions of the text stream.

The VT100 also features *double-width and double-size characters*, selectable by the user. Larger characters may be used for emphasis in formatted text, or to display error messages.

The basic character set features a number of *line drawing graphic characters* that can be used to present pictorial information of the screen. The line drawing capability of the VT100 makes forms easy to display—the forms are visually similar to hard-copy printouts. The line drawing characters also provide the ability to display simple graphics for business or laboratory applications.

Screen Attributes

New data can be scrolled smoothly onto the VT100 screen by enabling the *SMOOTH SCROLL* mode. When receiving data at high baud rates, scrolling can occur so rapidly that a visual inspection of screen information is impossible on most video terminals. Smooth scrolling permits scrolling to be controlled at the terminal by the user.

The *132-column mode* allows wide reports, which are usually generated in standard line-printer format, to be viewed on the VT100 without reformatting.

The screen of the VT100 can be divided logically into two areas for the convenience of the user and the programs.

Split screen capability allows part of the full 24-line screen to be scrolled separately so that data from the host computer can be displayed in a fixed area of the screen while the user enters and accesses information displayed in another portion.

By depressing a special *SETUP* key the user may replace the display screen by a status screen to select character displays, transmission rates, and column settings. When the same key is pressed again, the display screen reappears, without interfering with information that was entered previously.

Fixed and settable tab stops are standard in the VT100 within the full 80- or 132-column range. The user or the host computer can set tab stops anywhere on the screen for columnar data.

Composite video output is available for applications that involve displaying text or data to a group of people. Composite video output allows the VT100 to drive an auxiliary monitor. Composite video input allows the user to overlay video output from a remote terminal.

HARDWARE ENVIRONMENT

The Keyboard

The typewriter-like keyboard of the VT100 has a 6-foot coiled cord that enables the keyboard to detach from the console. The detached keyboard allows the user to place the monitor package in a variety of positions relative to the keyboard for a customized viewing and working angle. To facilitate operation, the VT100 keyboard provides special function keys such as a scroll key, cursor control keys, and keys that transmit control codes.

To the right of the keyboard is a built-in, calculator-style, 18-key numeric and function pad. Also featured on the VT100 are seven light-emitting diodes (LEDs), four of which are program-controlled, used as operator information and diagnostic aids.

The VT100 has just two mechanical switches, one for turning the terminal on and off, and the other to control the power supply. Everything else happens at the keyboard. All functions (baud rates, tabs, parity, etc.) are set via the keyboard and stored in non-volatile Random Access Memory (RAM).

Maintainability

The VT100 has built-in self-test diagnostics. Should maintenance be required, self-test diagnostics greatly reduce the time taken to isolate and repair faults.

The VT100 uses snap fasteners instead of screw fasteners for fast entry and easy servicing. Access to all major components is accomplished in just a few minutes, greatly reducing the time and cost of repair.

Upgrade Flexibility

The VT100 can range from an entry-level device to a sophisticated 60K byte user-programmable terminal system by offering such options as a terminal processor and advanced video. The advanced video option adds selectable blinking, underline, and dual intensity characters (in any combination) to the existing reverse video attribute. The advanced video option also provides for an alternate character sets allowing two character sets to reside in the terminal. Additional RAM is available that allows 24 lines of 132 characters.

Connections

The VT100 operates on full-duplex asynchronous communication lines, and is supplied with a standard EIA interface. An option is available to convert the standard EIA interface to a 20mA interface.



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PRINTRONIX 300

The Printronix 300 is unlike any other impact printer. Its elegantly simple printing mechanism gives it a greater uptime than others. Modular design cuts downtime to the minimum. The basic concept enables it to put a single dot anywhere on the paper, providing full plotting capability — at no extra cost plus print quality unattainable by any other line printer. All-in-all, it's rather remarkable.

When you get down to it, little differences in a medium speed printer won't upset anybody. But poor print quality will. The 6th copy should be as good as the first. They're meant to be read.

That's where the Printronix 300 beats them all, with the first new technology for impact printing in years. It's an "elegantly simple" mechanism that has virtually no frictional wear, never needs adjustment, has a 100% duty cycle, and is driven with uncomplicated electronics to print uniform density characters with precisely placed overlapping dots.

A substantial reduction in moving parts, elimination of most bearing parts, and simple hammer drive circuits substantially increases uptime. Modular design simplifies maintenance.

It's the only one that doubles as a plotter for extra capability, provides extended height characters, has a self-contained VFU . . . all at no extra cost.



COST/PERFORMANCE ADVANTAGES

- **FIRST TO LAST COPY PRINT QUALITY**
- **SIMPLE PRINTING MECHANISM . . .
INHERENT HIGH RELIABILITY**
- **160 CHARACTER CAPACITY PERMITS
INSTANT CHANGE OF CHARACTER
STYLE OR LANGUAGE.**
- **MODULAR DESIGN AND CONSTRUCTION
. . . MINIMUM DOWNTIME.**
- **OPERATING IN THE PLOTTING MODE.**

Printronix 300 Specifications

PRINTER MECHANISM

Rate	300 Lines per minute 240 LPM for underlines or lower case characters with descenders 170 LPM for double high characters
Matrix	9 Horizontal by 7 Vertical 9 x 9 for lower case character with descenders
Horizontal Format	132 Characters per line 10 Characters per inch
Vertical Format	6 lines per inch 8 lines per inch (operator or interface selectable)
Features	96 Character ASCII Set Double height Characters Underlining of Characters Plot Mode 8 LPI UP to 160 Characters (All Interface selectable)
Options	Special Character Sets Full width characters (12 x 9 Matrix)

PLOT MODE

Density	Horizontal 60 dots per inch Vertical 72 dots per inch
Rate	16-2/3 inches per minute

PAPER FEED

Paper Type	Edge punched, fanfolded forms 1 to 6 part Up to 16 inches wide
Drive	Adjustable tractors with 8 pin engagement Stepper motor
Speed	33 ms 1/6 inch step 25 ms 1/8 inch step 8 inches per second slew
Forms Control	11 inch electronic top of form 1/2 to 1 inch perforation skip over Electronic VFU
Features	Paper motion detector Paper out switch
Options	2 or 8 channel mechanical VFU Forms Length Switch
Ribbon	1 inch wide 60 yards long Nylon Fabric

OPERATOR CONTROLS & INDICATORS

External Controls	Power Switch (Lower Left side) Top of form On Line/Off Line 6/8 LPI Paper Advance Check Reset
Internal Controls	Form Thickness Adjust Horizontal Vernier Vertical Positioning
Indicators	Power On Check VFU Loaded 8 LPI On Line

INTERFACE

Data Input	ASCII Parallel TTL Logic Levels Full Line Buffer
Features	Data Products plug compatible Centronics plug compatible
Options	RS232 serial buffered interface Off Line exercisers Long Lines Interface

POWER REQUIREMENTS

Voltage	100, 110, 120, 200, 220, 240
Voltage Limits	+10%, -15%
Frequency	50, 60 Hz
Power	200 Watts standby
Consumption	450 Watts nominal 800 Watts max.

ENVIRONMENTAL

Temperature	Operating: 10C to 38C Storage: -40C to 65C
Humidity	Operating: 30% to 90% (excluding condensation) Storage: 5% to 95% (excluding condensation) Options: Static Eliminator (For humidity to 10%)

PHYSICAL CHARACTERISTICS

Size	16.5 inches high, 30 inches wide, 24.25 inches deep
Weight	185 lbs.
Features	Quietized Cabinet (below 65dbA)
Options	Pedestal with basket and guide Color



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TTY 43

When it comes to **economy, versatility** and **reliability** you'll find the Teletype® 43 teleprinter is in a class by itself. This low-cost communications terminal delivers true 30 character per second throughput, up/low printing and 132 column format capability on 11" wide fanfold paper.

The 43 features a unique **9-wire matrix impact printhead** mechanism that provides superior service life and exceptional printing quality. This departure from the typical 7-wire printhead design permits our lower-case characters to show **true descenders** for increased legibility.

Under the 43's low silhouette cover the hardware is kept to a minimum, and the solid-state circuitry is packed with **more capabilities** at less cost to you. The terminal is operator selectable to send or receive at 10 or 30 cps in either the half- or full-duplex mode with even parity detection on or off.

Whatever your application, **time-sharing, data inquiry/response** or **simply communicating** point-to-point over the dialed switch network or private-line, the 43 teleprinter was engineered with you in mind. It delivers printing quality, reliability and serviceability **unsurpassed in price/performance** value. And its compatible with systems that support the popular Teletype model 33 terminals.

For those who desire direct access to their computer for statistical and accounting data, the 43 teleprinter is the solution. This quiet operating terminal occupies no more space than an ordinary typewriter, yet prints up to a **132 character line**...and provides cost savings in the process. That's because it prints at 13 characters per inch on 12" wide by 8½" long fanfold paper which becomes a handy 8½" by 11" size when the ½" serrated margins are removed. Now business reports and tabular listings can be received where and when you need them and in a convenient size for reproducing and storing.

The pin-feed 43 is also ideal for preparing other documents associated with business activities including purchase orders, shipping papers and invoices to name a few.

A number of user-oriented features will serve to increase data throughput and reduce operator errors. Here are just a few examples:

The **solid-state keyboard** is very responsive and exceptionally easy to use. Its similar in touch and appearance to that of an office typewriter. Users can type as fast as their skills permit, thanks to our buffered keyboard. Margins can be set locally or on-line. The keyboard also includes **Print Test and Interrupt Keys**, the former to enable the user to quickly check printer operation and the latter to halt a sender from further transmission. Other user aids include **last character visibility**, a print indicator that lets you know exactly where you are, an end-of-line bell indicator, and a paper alarm. If the sender occasionally fails to generate a carriage return and line feed, data is not lost. The receiving 43 teleprinter will automatically carriage return and line feed. These functions do not require fill characters by the sender. **True throughput speed** is achieved without interruption due to the terminal's **receive buffer** and printer's catch-up speed capability.

Simplicity of design and **modular construction** make the 43 teleprinter exceptionally easy to maintain. The terminal is comprised of **five pluggable major components**. Disassembly takes only a few minutes with only a screwdriver and wrench required. With **built-in test capability** to isolate the trouble and modular components for speedy replacement, downtime is very minimal.

FEATURES

Operator Selectable Controls & Indicators

- Local
- Term Ready
- Line
- Interrupt
- Alarm
- Printer Test
- Parity Off/On
- Half or Full Duplex
- 30 to 10 cps

Printer

- Prints up to 132/char line with characters spaced horizontally at approximately 13/inch and lines vertically at 6/inch.
- Accommodates up to 3-ply fanfold paper 12" wide by 8½" long. Becomes convenient 8½" by 11" size by removing serrated tear margins.
- Characters formed by a 9-wire matrix impact printhead printing a combination of up to 7 out of 9 dots vertically and up to 4 dots horizontally.
- Prints full 94 ASCII character set (upper/lower case) plus parity error symbol.
- Last character visibility.
- Print position indicator with scale.
- End-of-line indicator (bell sounds 8 chars before and at EOL).
- Ribbon cartridge (continuous inking) for easy replacement.

Keyboard

- Typewriter-like solid-state keyboard generates all 128 ASCII code combinations.
- Back Space, operator and on-line.
- Caps Lock Feature.
- Adjustable margins, operator (keyboard) and on-line.
- Repeat Key
- N — Key rollover permits multiple key depression without error.

General

- Modular components for easy replacement.
- Built-in test feature.

TECHNICAL HIGHLIGHTS

Transmission Asynchronous at 110 or 300 bits per second.

Code: 1968 ASCII.

Interface: EIA (RS232).

Electrical Requirements: 115 VAC @ 50/60 Hz.

Dimensions & Weight (approx.)

Height: 5½"; Width: 18"; Depth: 21½"; Weight: 30 lbs.

For further information on prices and delivery, call the office nearest you, or call our toll free number outside of Massachusetts.



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COMM-STOR II

COMMUNICATIONS DATA STORAGE

Comm-Stor II is an intelligent data storage system with two or three high-speed communication ports. Comm-Stor II interfaces directly with all asynchronous RS-232 terminals, printers, modems, instruments and other devices. All members of the Comm-Stor family write data on diskettes in a format which can be read by IBM 3740 family equipment and vice versa.

Data entered or sent to Comm-Stor II is stored on diskettes as files, with individual file names automatically cataloged in a directory. Storing, sorting and retrieving data is easy and rapid because the Comm-Stor II file management system automatically does all the work. After receiving data from a terminal or instrument at low speed, an unattended Comm-Stor II can send batched data at high speed over communication lines and can interact with asynchronous communication protocols. Both single and dual drive diskette systems are available.

COMM-STOR III

FORMS DATA ENTRY

Comm-Stor III is an intelligent storage and communications system that, when attached to the user's terminal, provides a sophisticated yet low-cost data entry station. Standard business forms and user defined formats are easily set up on the system to simplify data entry. Comm-Stor III requires no intelligence in the user's terminal and through an internal microcomputer provides all the intelligence necessary for forms data entry, validation, diskette storage and unattended data transmission.

The primary application of Comm-Stor III is source data entry from documents such as: sales orders, job reports, freight weighbills, insurance claims, tax forms and registrations. Data on diskette can be automatically converted by Comm-Stor III to the IBM 3740 Data Exchange Format for immediate entry into IBM systems.

Single and dual drive diskette systems are available.

COMM-STOR IV

PROGRAMMABLE COMMUNICATIONS STORAGE

The programmable Comm-Stor IV is a data storage and communications system that includes an Extended BASIC interpreter, a sophisticated file manager, and a flexible data communications system all resident as firmware in 40K bytes of ROM memory. User BASIC programs may occupy up to an additional 40K bytes of RAM memory. A set of unique commands in the firmware tremendously simplifies the programming of data entry, storage and transmission applications.

The OEM, System House or End User can connect their own terminals to the asynchronous RS-232 Terminal, Printer and Modem ports on Comm-Stor IV. A real-time clock, priority interrupts to 7 levels, and software protection features make Comm-Stor IV easy to use for turn-key applications.

Single and dual drive diskette systems are available.

COMM-STOR II KEY FEATURES:

- IBM 3740 compatible
- Variable length files
- Buffered communications
- English language commands
- Directory of files
- Text editing
- Forms data entry
- System parameters are keyboard selectable
- Sorting capabilities
- Random file search
- 256K byte diskette

COMM-STOR III KEY FEATURES:

- Runs with user's forms
- Data validation
- Range checking
- Look up, fill in
- Arithmetic to 16 digits
- IBM 3740 data exchange
- Data communications

COMM-STOR IV KEY FEATURES:

- User programs to 40K bytes
- Data communications
- Input data buffering
- Real-time clock
- Virtual arrays
- CALL and LINK programs
- Binary data I/O
- Interrupts to 7 levels
- IBM 3740 data exchange



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ANDERSON JACOBSON the AJ 242 and AD 342 Couplers

The AJ242 and AD342 couplers enable data terminals or computers to communicate with other terminals or computers over normal telephone lines. Both units acoustically transmit and receive data through ordinary telephone handsets over ordinary switchboard network telephone lines. Both couplers provide Electronic Industries Association (EIA) and Teletypewriter (TTY) interfaces for use with keyboard data terminals and other terminals, such as tape recorders, plotters, or CRT displays. Both are compatible with Bell 103A-type data sets.

FEATURES

The AJ 242 and AD 342 coupler designs benefit from AJ's experience in building more acoustic couplers than anyone else in the world. AJ was the first company to commercially manufacture acoustic couplers. Knowledge gained from designing and building more complex and sophisticated acoustic couplers has resulted in a coupler which closely approaches the theoretical limits of acoustic performance. Some of the outstanding features are:

- **Superior Acoustic Interface with Telephone Handset:** Advanced patented acoustic cup design with dampened cantilever suspension provides isolation from mechanical vibration. The flexible wall of the cups makes a tight seal against acoustic noise for many different handsets.



**QUARTZ
CRYSTAL
ACCURACY**

AJ-242



- **User-Oriented Carrier Detector:** The coupler carrier detector will not recognize signals that are too noisy for useful data reception. It not only checks for correct signal frequency (as opposed to minimum signal amplitude), but also decides whether a signal is *sufficiently* larger than the noise to produce satisfactory data. Noise, no matter how great, is prevented from ever falsely indicating carrier; the carrier light only indicates a *useable* signal, not just a strong signal.
- **High Reliability:** Ensured by crystal control (which eliminates most adjustments) and conservative component selection.
- **Terminal Versatility:** Operates with either EIA-interface terminals or 20 mA current loop teletypewriters.

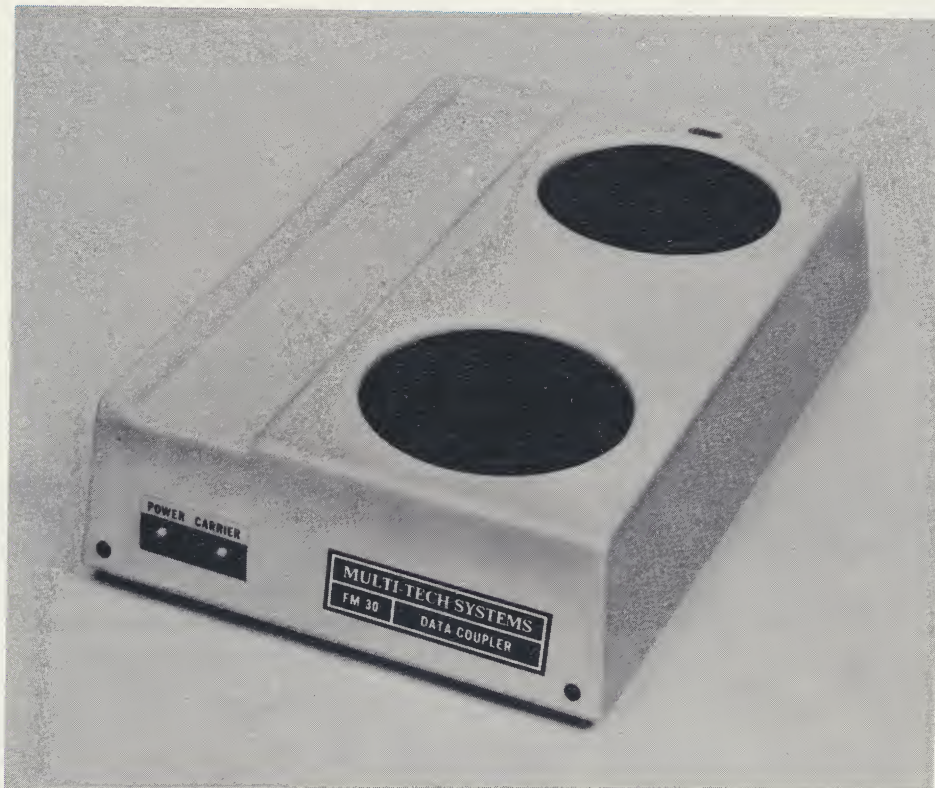
SPECIFICATIONS

	AJ-242	AD-342
DATA RATE	0 to 450 BAUD	0 to 450 BAUD
POWER INPUT	115V 50 to 60 HZ	115 V 50 to 60 HZ
	5 Watts	8 Watts
TEMPERATURE	40° to 120°F	40° to 120°F
INDICATOR LAMPS	Carrier/Power	Carrier/Power
COUPLING	Acoustic	Acoustic
SIZE	12½" x 7½" x 3¼"	12½" x 7½" x 3¼"
WEIGHT	5 Lbs.	5 Lbs.
SWITCHES	Power Half/Full	Power Half/Full Ans./Orig.



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MODEL FM30 ACOUSTIC COUPLER

The model FM30 transmits and receives asynchronous, serial digital data up to 300 bits/second, full or half duplex on DDD networks.

- ACOUSTIC COUPLING
- PROVEN LOGIC CIRCUITS
- LOW ERROR RATE
- RUGGED CONSTRUCTION
- QUARTZ CRYSTAL ACCURACY
- EIA AND TTY COMPATIBILITY

The Multi-Tech FM30 is an acoustically coupled data modem. Unlike conventional hardwired modems, which require a permanent or semipermanent connection to the telephone line, the FM30 permits data communication through the handset of an ordinary telephone. This flexibility not only makes it easier for time-sharing users to cope with rapidly changing systems requirements, but also introduces mobility, and even portability into terminal usage.

Although economically priced, the FM30 is designed to provide the maximum degree of data transmission reliability at data speeds up to 300 bits per second, even under conditions involving marginal quality communications facilities and noisy operating environments.

FEATURES

COMPATIBLE

- with Western Electric Series 103 and 113 A/B data sets
- with EIA RS232B/C, 20mA current loop, and TTL interfaces
- Half or Full Duplex operation
- Circuit board and acoustic assembly are easily adaptable for OEM applications.
- with DECwriters, CRT's, Teletype 33's, 43's, etc., TI 700 series, and most other commonly used computer terminals and devices

RELIABLE

- Crystal controlled transmit frequencies
- Receiver utilizes active filters and digital detector.
- Acoustic cups, made from natural rubber, are deep and flexible, grip the handset tightly, and are suspended from the exterior case by acoustical foam cushions, virtually eliminating errors due to ambient room noise and vibration.

DURABLE

- Metal chassis — rugged construction
- Rubber feet reduce vibration — prevent skidding
- Speaker is a high quality, virtually indestructible telephone handset unit.
- Enclosure is formed from Royalite Series 21 impact-resistant ABS.



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In Georgia,
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Title _____

Company _____

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City _____

State _____ Zip _____

Phone _____
(Area Code) (Telephone Number)

Signature _____

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I authorize Southern Bell to issue _____ Bell System
(Number)
Credit Card(s) and to bill all charges for calls made with this card or cards to:

Area Code Telephone Number City

Please sign in ink

This Bell System Telephone Credit Card application is for Southern Bell customers only.

Application

For companies who are now using or planning to use 1200 baud terminals, these units can improve throughput substantially. The Anderson Jacobson modems are ideally suited for a wide range of application and bring new simplicity and efficiency to time sharing communication applications.

Quartz Crystal Accuracy

The circuits of the Anderson Jacobson terminals are quartz crystal controlled. They provide extreme accuracy over long periods of time and wide variations in AC voltage and temperature.

Reliability

The Anderson Jacobson units undergo thorough testing for stability, performance and accuracy. These modems are designed for long trouble free operation.



COUPLER/MODEM AJ 1234

- AJ 1255 and VA34XX compatible
- Full duplex synchronous or asynchronous operation
- Switch selectable speeds up to 1200 baud
- Switch selectable character bit length
- Automatic digital loopback
- Terminal break capability
- Zero line turnaround time
- RS 232 terminal interface
- Compact package

AJ 1245

- Quartz crystal controlled 450/1200 baud operation
- Originate only 103 full duplex or 202 half duplex, switch selectable
- Powerful automatic transmitter/receiver equalization
- Automatic switching from acoustic to DAA operation
- Easy portability

AJ 1255 MODEM

FEATURES

- AJ 1234 and VA34XX compatible
- Full duplex 1200 bps communication
- Full duplex synchronous or asynchronous operation
- Compact space saving unit
- Analog and digital loopback tests
- RS 232C interface

Connection and Installation

The AJ 1255 switched network modem has been registered under FCC rules for direct connection to telephone lines via a permanent jack or data jacks. This means users will no longer be required to rent DAA's from their phone company nor be restricted as to terminal locations.

SPECIFICATIONS

AJ 1234 COUPLER/MODEM

- Operating mode, originate only; full duplex
 - Transmission speed 1225, 1205 or 1200 baud switch selectable
 - 1225 or 1205 baud required for asynchronous data
 - Line interface: acoustic coupler, manual DAA, direct connect to two-wire leased line.
 - Power, transmit, receive, and carrier indicator lights
 - Dimensions of 14 x 8.5 x 4 inches (35.6 x 21.6 x 10.2 cm)
 - Weight of 5.25 lbs. (2.38 kg)
 - EIA RS 232C terminal interface
-

AJ 1245 COUPLER/MODEM

202 Mode (202 type modem at remote end)

Primary Channel

- Frequency-shift-keying modulation type
- 0 to 1200 baud unconditioned lines
- Serial binary, asynchronous
- Half duplex

Secondary Channel

- On-off keying modulation type
- 0 to 5 baud
- Serial binary, asynchronous
- Compatible with 202C, 202S and 103A

103 Mode (originate only)

- 0 to 450 baud
 - Serial binary, asynchronous
 - Full/half duplex
 - Connectors; EIA, DAA
 - Cables; C52, manual DAA cable (optional)
 - Dimensions of 14 x 8.5 x 4 inches (35.6 x 21.6 x 10.2 cm)
 - Weight of 4.25 lbs. (1.93 kg)
 - EIA RS 232C terminal interface
-

AJ 1255 MODEM

- Synchronous data rates; 1200, 1205 or 1255 bps, switch selectable
- Asynchronous data rates; 1180 to 1204 bps or 1195 to 1224 bps with 300 bps or below; or 590 to 602 bps with 150 bps or below; switch selectable
- Originate/Auto answer, full duplex
- Manual originate, manual answer or auto answer control modes
- Dimensions of 12 x 7 x 2.5 inches (30.5 x 17.8 x 6.5 cm)
- Weight of 2.4 lbs. (1.1 kg)
- EIA RS 232C terminal interface



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Diablo HyTerm 1620



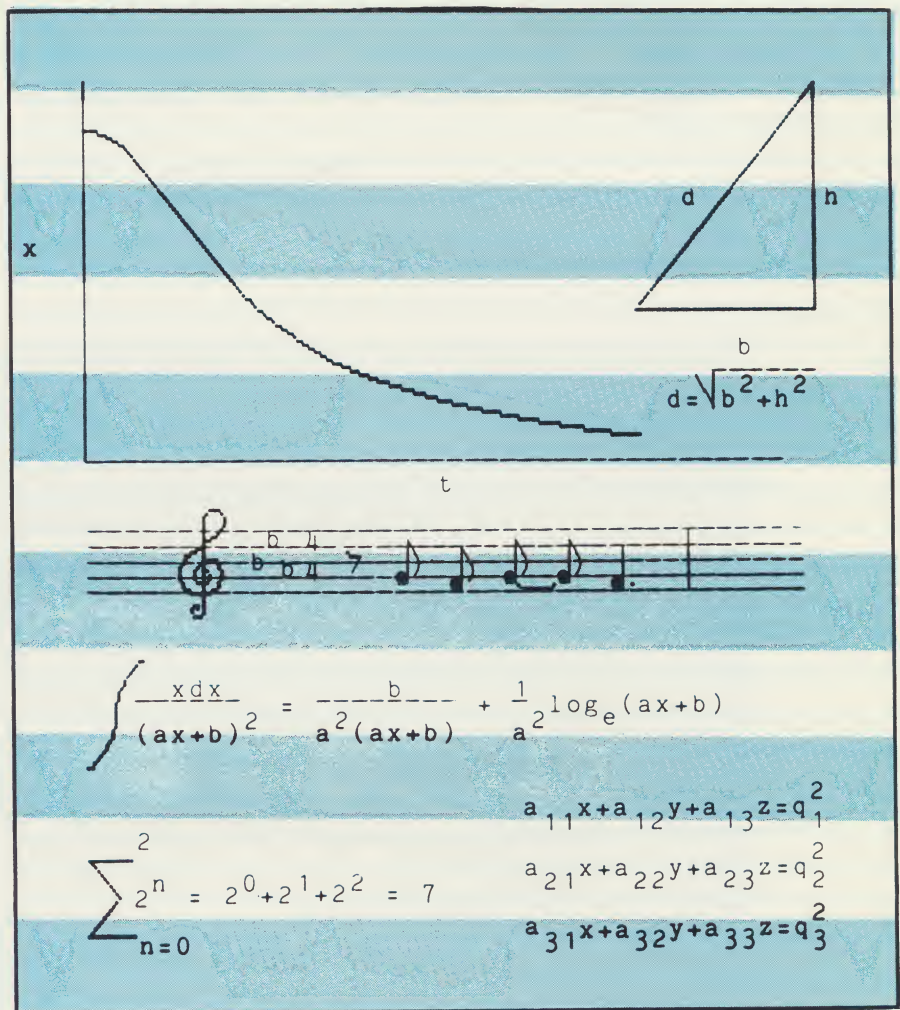
Featuring . . .

- Highest Reliability • *Micro Processor Driven*
- Highest Possible Print Quality • *Carbon Ribbon*
Unique Printwheel Style
- True Graphics Capability • *26 Type Styles*
Variable Format
- True 300 CPS • *Reverse Printing*
High Speed Tabbing
- Flexible Interface • *All Standard EIA*
or 20 mA Connections
- Forms Adaptability • *Pin Feed, Friction Feed,*
or Forms Tractor Available

The new **Diablo HyTerm** combines high quality printing adaptability with micro processor driven reliability. The **Diablo HyTerm** is a perfect terminal for locations requiring preprinted forms, photoquality reproductions, or graphics printout. Unique features such as high speed horizontal and vertical tabulation and backward printing eliminate all unnecessary carriage movement making effective print speed significantly higher than competitive terminals.

Unique software- initiated graphics capability.

*In graphics mode,
printing and carriage
positioning are divorced
and the carriage may be
moved in 1/60" increments,
in either direction.
Paper can be moved up or down
in 1/48" increments,
allowing plotting of curves,
triangles and other graphics.*



Diablo HyTerm 1620

SPECIFICATIONS:

Key Character Set	Generates all 128 ASCII characters.
Print Character Set	Prints all 94 printable ASCII characters.
Print Speed	45 characters per second, average text.
Baud Rate	110, 150, 300 Baud.
Parity	Odd, Even, Mark.
Auto LF	Perform line feed after carriage return.
Duplex	Half or Full (echoplex).
Characters/Inch	10 or 12 (other spacing programmable locally or remotely).

Error Detection and Indication

Parity, Framing, Overrun and optional interlocks. These errors are detected and an error lamp is illuminated.

Upper Case Only Forms Length

Height: 8.25 inches
Width: 23.25 inches

Depth: 20.30 inches
Weight: 48 lbs. (approx.)

FORMS ADAPTABILITY:

Extensive handling capability is standard in the **HyTerm**. Conventional tabbing, absolute tabbing, adjustable form length, electronic top of form and form feed capability make processing of pre-printed forms (such as invoices) more efficient.

STANDARD FEATURES:

- Variable Format Control
- Graphics Escape-Code Functions
- Full ASCII Character Sets
- Send Buffer (8 characters)
- Print Buffer (158 characters)
- Data Error Detection
- Typewriter-Paired Keyboard
- Numeric Key Pad
- Control Panel
- Audible Alarm
- Forms Tractor



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816 / 817 / 818 DATACASSETTES

Wide Performance RS-232 Recorders

Techtran's 816, 817 and 818 offer microprocessor intelligence and RS-232 plug compatibility in 3 new DATACASSETTE models.

Add the 816, 817 or 818 to terminals, data-loggers and minicomputer systems for superior data storage capabilities. Use the DATACASSETTES online and offline with full remote control for unattended operation.

Optional ANSI/ECMA recording format provides media compatibility with a variety of systems. Additional, easy to use features include file skip, binary mode and 2400 baud operation.

Fast string search, powerful editing and Techtran reliability make the new DATACASSETTES the most versatile, flexible recorders available anywhere.

Techtran 816, 817 and 818 DATACASSETTES - truly the best for any data storage application.

General Performance

Storage Capacity: 145,000 characters per cassette

Storage Media: Philips-type magnetic tape cassette

Transmission: Half/Full duplex; asynchronous

Coding: ASCII; 8-level

Tape Speed: 20 ips read/write; 120 ips rewind

Operating System: Microprocessor-controlled; resident program

Recording Format: Compatible with 8400 Series recorders (ANSI/ECMA, TI, NCR compatibility optional)

Interfaces: Terminal—RS-232C/20 MA
Modem/CPU—RS-232C

Individual Features

816

Number of Drives—One **Transmission Rates**—110, 300 baud; switch selectable **Remote Control**—Read, Write, Rewind, File Skip, Edit **Data Edit**—Character delete with printout control **File Skip**—Tape skip to next file mark without readout **Line Mode**—Activates line-by-line readout **Binary Mode**—Code transparent operations **CR Delay**—Automatic enable; CR/LF **Write Protect**—Automatic cassette TAB detection **Online/Offline**—Automatic online activate; manual override **Controls**—Read, Write, Rewind, Binary/Online/Offline, Line Mode, Power **Indicators**—Read, Write, Rewind, Power **Operating Modes**—Read, Write, File Skip, Line Mode, Binary

817

Number of Drives—One **Transmission Rates**—110, 300, 1200, 2400 baud; switch selectable **Remote Control**—Read, Write, Rewind, File Skip, Edit **Data Edit**—Character delete with printout control **File Skip**—Tape skip to next file mark without readout **Line Mode**—Activates line-by-line readout **Binary Mode**—Code transparent operations; limited remote control **CR Delay**—Automatic enable; CR/LF **Write Protect**—Automatic cassette TAB detection **Online/Offline**—Automatic online activate; manual override **Controls**—Read, Write, Rewind, Binary/Online/Offline, Line Mode, Power **Indicators**—Read, Write, Rewind, Power **Operating Modes**—Read, Write, File Skip, Line Mode, Binary

818

Number of Drives—One **Transmission Rates**—110, 300, 1200, 2400; switch selectable **Remote Control**—Read, Write, Rewind, Partial Rewind, File Skip, Search, Edit, Tape Editor **Data Edit**—Character delete with printout control **Tape Editor**—Add, delete or replace data using single commands; automatic retrieval and reinsertion **File Skip**—Tape skip to next file mark without readout **String Search**—High speed scan for up to 31 character string **Line Mode**—Activates line-by-line readout; provides data expansion mode **Binary Mode**—Code transparent operations; limited remote control **CR Delay**—Automatic enable; CR/LF **Write Protect**—Automatic cassette TAB detection **Online/Offline**—Automatic online activate; manual override **Controls**—Read, Write, Rewind, Binary/Online/Offline, Line Mode, Power **Indicators**—Read, Write, Rewind, Power **Operating Modes**—Read, Write, File Skip, Search, Tape Editor, Line Mode, Binary

Physical/Environmental

Size: Height 5" (13 cm)
Width 7 $\frac{1}{4}$ " (18 cm)
Depth 11" (28 cm)

Weight: 6 lbs. (2.7 kg)

Mounting: Desk Top

Temperature Range: 10° to 40° C

Humidity Range: 20% to 80% RH without condensation

Power Requirements: 115 VAC, 47-63 Hz, 30 Watts
(100/230 VAC, 47-63 Hz Optional)



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